Six Element Analysis (TO-BE):

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| --- | --- | --- | --- | --- | --- | --- |
| **Process** | **System Roles** | | | | | |
| **Human** | **Non-Computing Hardware** | **Computing Hardware** | **Software** | **Database** | **Network & Communication** |
| **Data Insertion** | **AQMS:**  1.Rceives raw data from research lab.  2.Collects raw AQI data from BMD.  3.Receives comment from Municipality and Ministry.  4.Receives generated chart from the database.  **Research Lab:**  1.Collects report from AQMS.  **Ministry:**  1.Receives report from AQMS.  **Bangladesh Meteorological Department:**  1.Receives report from AQMS.  **Municipality:**  1.Receives final report from AQMS. | **Pen and Papers:**   1. To   collect manual data for the hardcopy. | **Computer:**   1. All   the data are finally stored using a computer. | **MS Excel;**  **Chrome;**  **Safari** etc**.** | **MySQL:**  1.Stores the data. | **Internet:**  1.Used to access the system. |
| **Data Analysis** | **AQMS:**  1.Process data and send required data to regenerate the chart.  **Municipality:**  1.After analyzing the received data from AQMS, sends a comment back to AQMS.  **Research Lab:**  1.Analyze the raw data and sends a report to AQMS. | **Not Applicable** | **Computer:**   1. All   the data are finally stored using a computer.  **Smartphone:**   1. CASE   can be accessed through any smartphone. | **MS Excel;**  **Chrome;**  **Safari;**  **Firefox**  etc**.** | **MySQL:**  1.Stores the data. | **Internet:**  1.Used to access the system. |
| **Output** | **User:**  1.Gets monthly updated information regarding Air pollution. | **Not Applicable** | **Smartphone:**  CASE can be accessed through any smartphone.  **Computer:** CASE can be accessed through computer. | **Chrome;**  **Safari;**  **Firefox**  etc**.** | **No database used.** | **Internet:**  1.Used to access the system. |